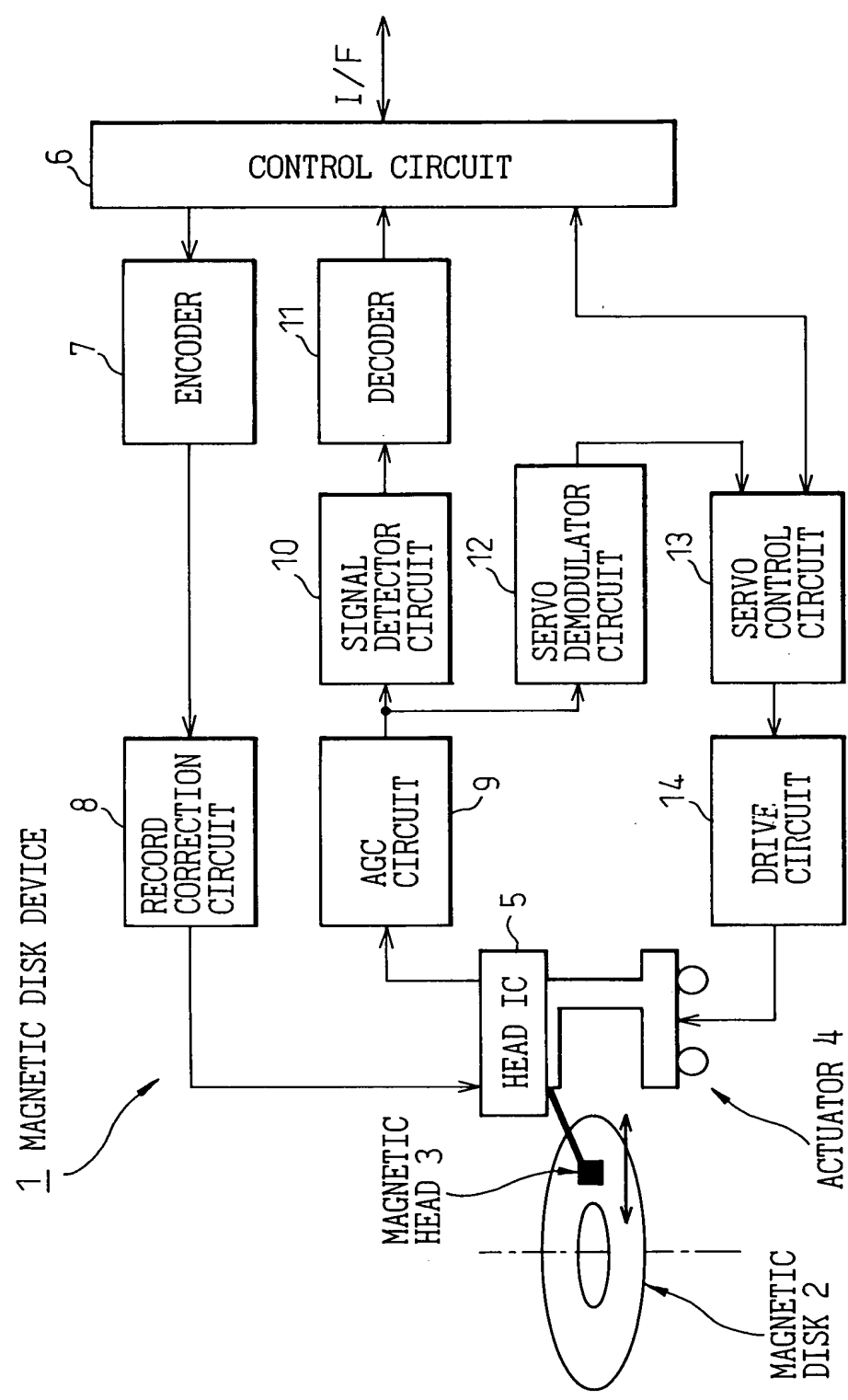


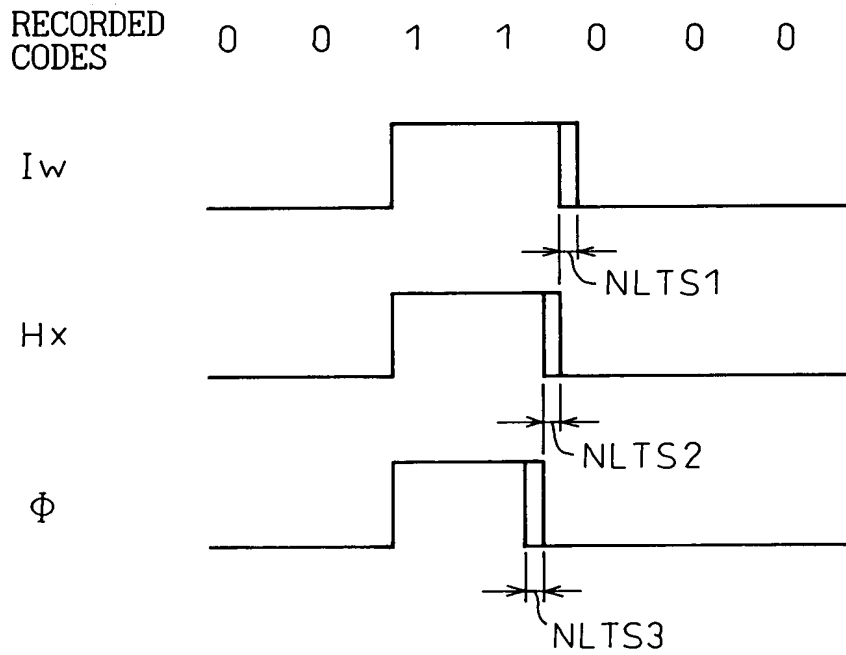
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Fig.1



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Fig.2



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Fig.3

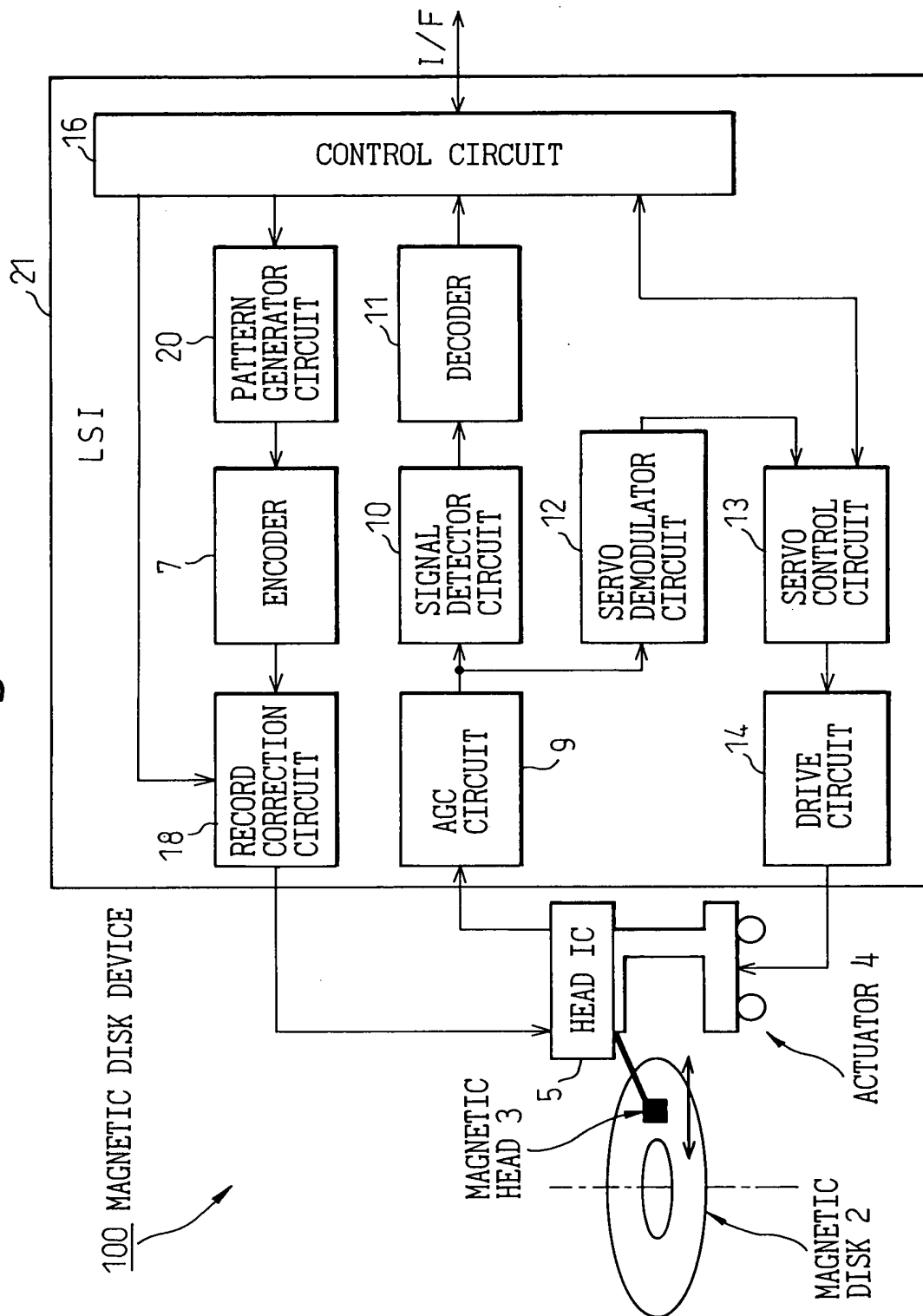


Fig.4

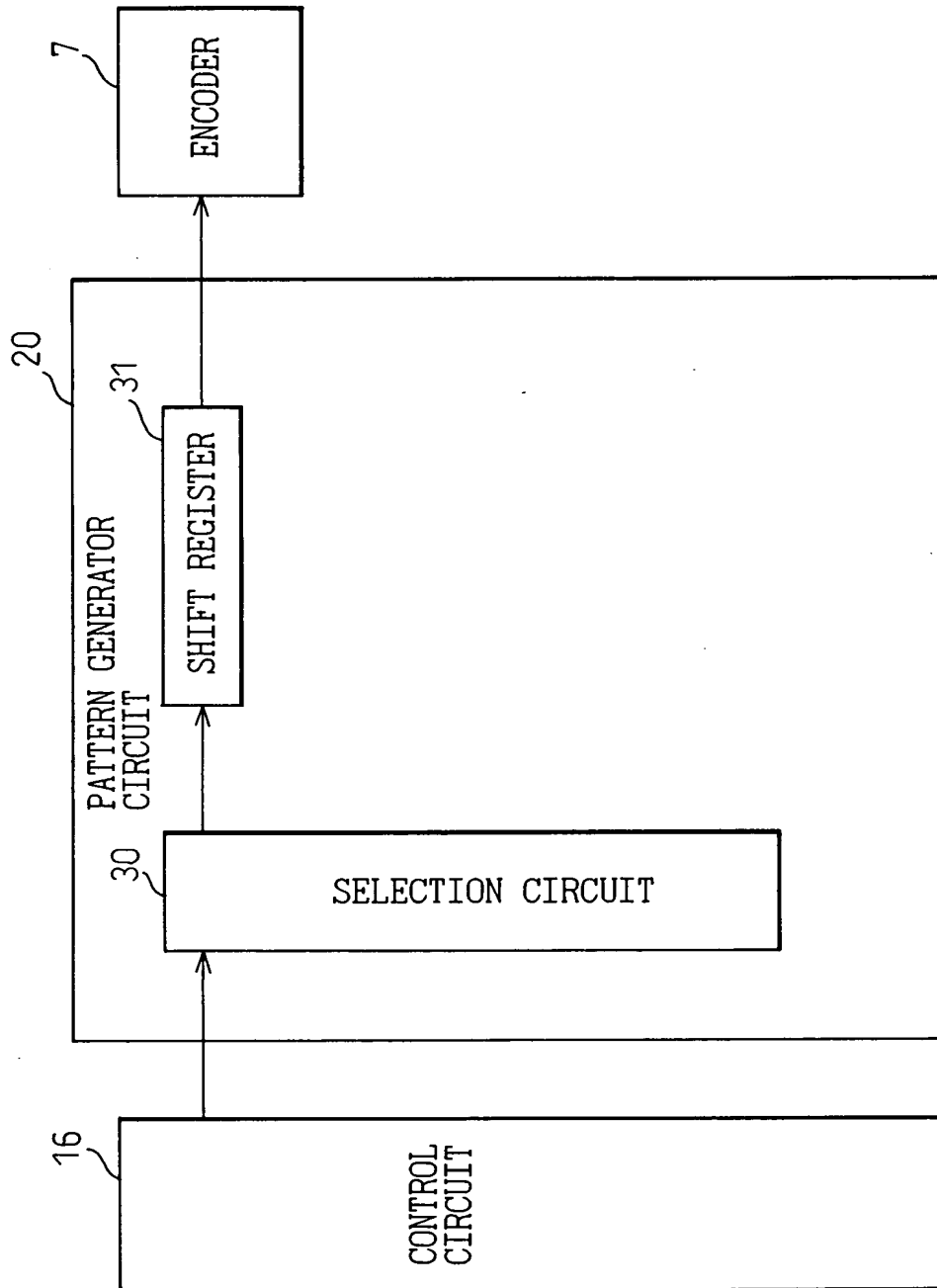
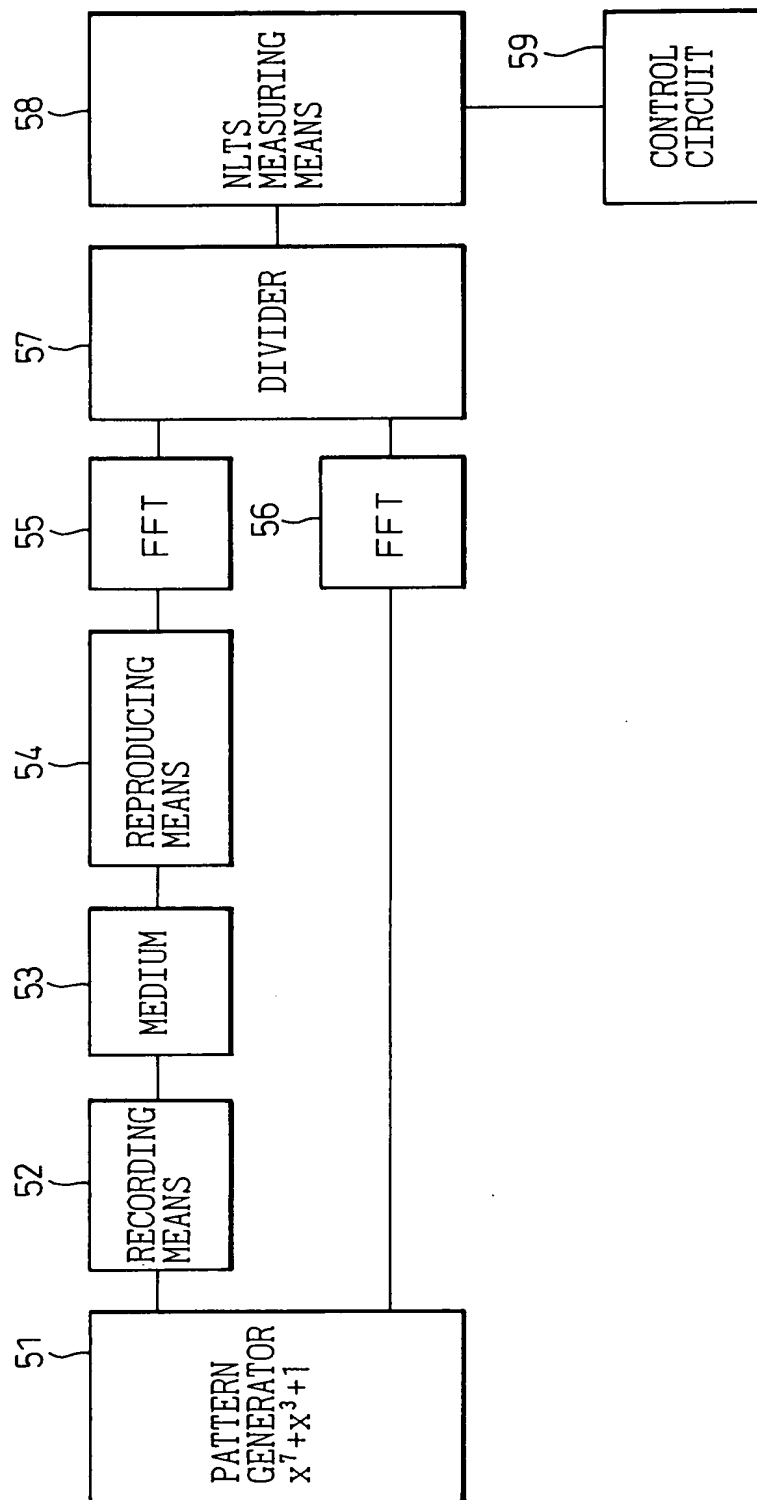
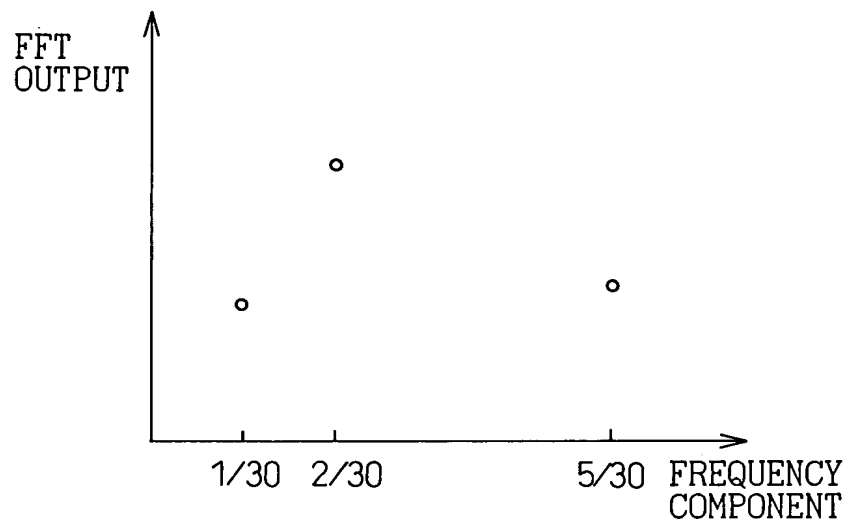


Fig.5



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Fig.6



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TABLE "EE645550"

Fig.7A

*1

KIND OF NLTS MEASUREMENT		RECORDING PATTERN A (NRZI NOTATION)																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
TO-BE- MEASURED PATTERNS	DIBIT (ORIGINAL)	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
	TRIBIT (BIPOLAR)	1	1	1	0	0	1	1	0	1	0	0	1	0	0	1	1	1	0	0	0	1	1	0	0	1	0	0	0	0	0	0	
	2T (BIPOLAR)	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	
	HTS (O/WNLTS)	1	0	1	0	1	0	1	0	1	0	0	0	1	0	1	0	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0
REFERENCE PATTERN	REF (COMMON)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Fig.7B

*1

NLTS	ABSOLUTE ERROR BY ASYM
AVERAGE BIPOLAR NLTS VALUE OF DIBIT	-5%
AVERAGE BIPOLAR NLTS VALUE OF TRIBIT	+5%
AVERAGE BIPOLAR NLTS VALUE OF 2T PATTERN	-5%
UNIPOLAR NLTS	LESS THAN 5%

*2

Fig.8A

KIND OF NLTS MEASUREMENT	V5pat	V5ref
DIBIT (ORIGINAL)	$[1+\exp(-j * \text{PI}/3 * \text{ow})] * [1+\exp(-j * \text{PI}/3 * 2) - \exp(-j * \text{PI}/3 * (1-\text{nltts}))]$	$[1+\exp(-j * \text{PI}/3 * \text{ow})]$
TRIBIT (BIPOLAR)	$[1+\exp(-j * \text{PI}/3 * \text{ow})] * [1+\exp(-j * \text{PI}/3 * (2-\text{nltts}))]$	
2T (BIPOLAR)	$[1+\exp(-j * \text{PI}/3 * \text{ow})] * [1+\exp(-j * \text{PI}/3 * 2) - \exp(-j * \text{PI}/3 * (2-\text{nltts}))]$	
HTS (O/WNLTS)	$[1-\exp(-j * \text{PI}/3 * \text{ow})] * \exp(-j * \text{PI}/3)$	

Fig.8B

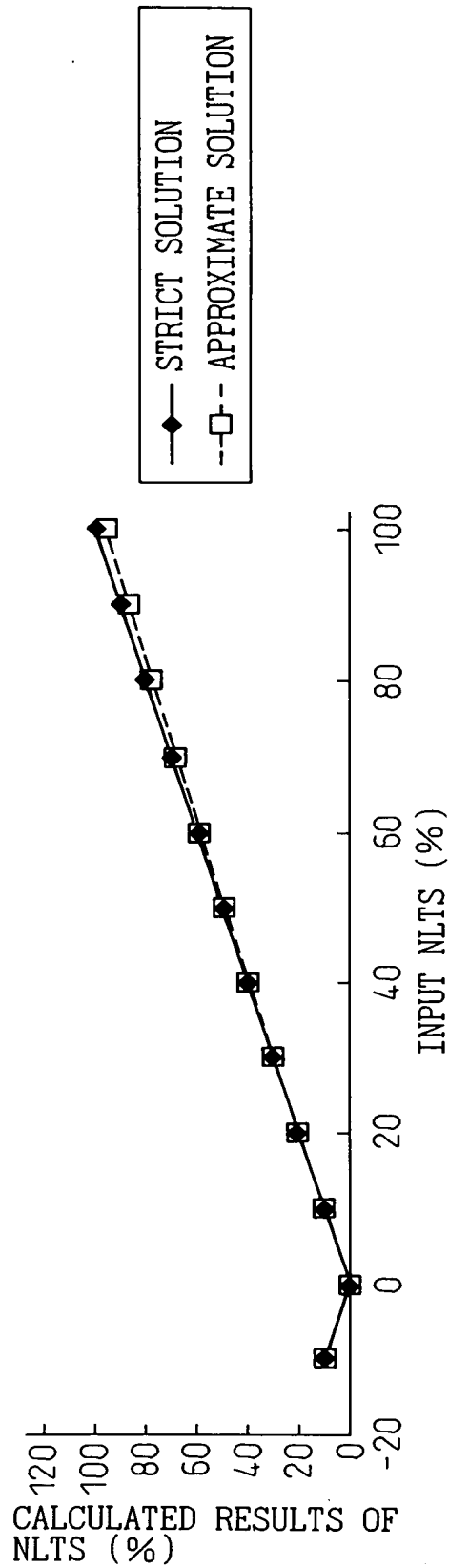
*2

	(V5pat/V5ref)=Vab	FORMULAS FOR NLTS CALCULATION	
		STRICT SOLUTION	APPROXIMATE SOLUTION
	$ 1+\exp(-j \cdot \text{PI}/3 \cdot \text{nltts}) $	$\text{acos}[(2-\text{Vab}^2)/2] \cdot 3/\text{PI}$	$\text{Vab} \cdot 3/\text{PI}$
	$ 1+\exp[-j \cdot \text{PI}/3 \cdot (2-\text{nltts})] $	$2-\text{acos}[(\text{Vab}^2-2)/2] \cdot 3/\text{PI}$	-
	$ 1-\exp[-j \cdot \text{PI}/3 \cdot (1-\text{nltts})] $	$1-\text{acos}[(2-\text{Vab}^2)/2] \cdot 3/\text{PI}$	$1-\text{Vab} \cdot 3/\text{PI}$
	$ 1-\exp(-j \cdot \text{PI}/3 \cdot \text{ow}) / 1+\exp(-j \cdot \text{PI}/3 \cdot \text{ow}) $	$\text{acos}[(1-\text{Vab}^2)/(1+\text{Vab}^2)] \cdot 3/\text{PI}$	$\text{Vab} \cdot 6/\text{PI}$

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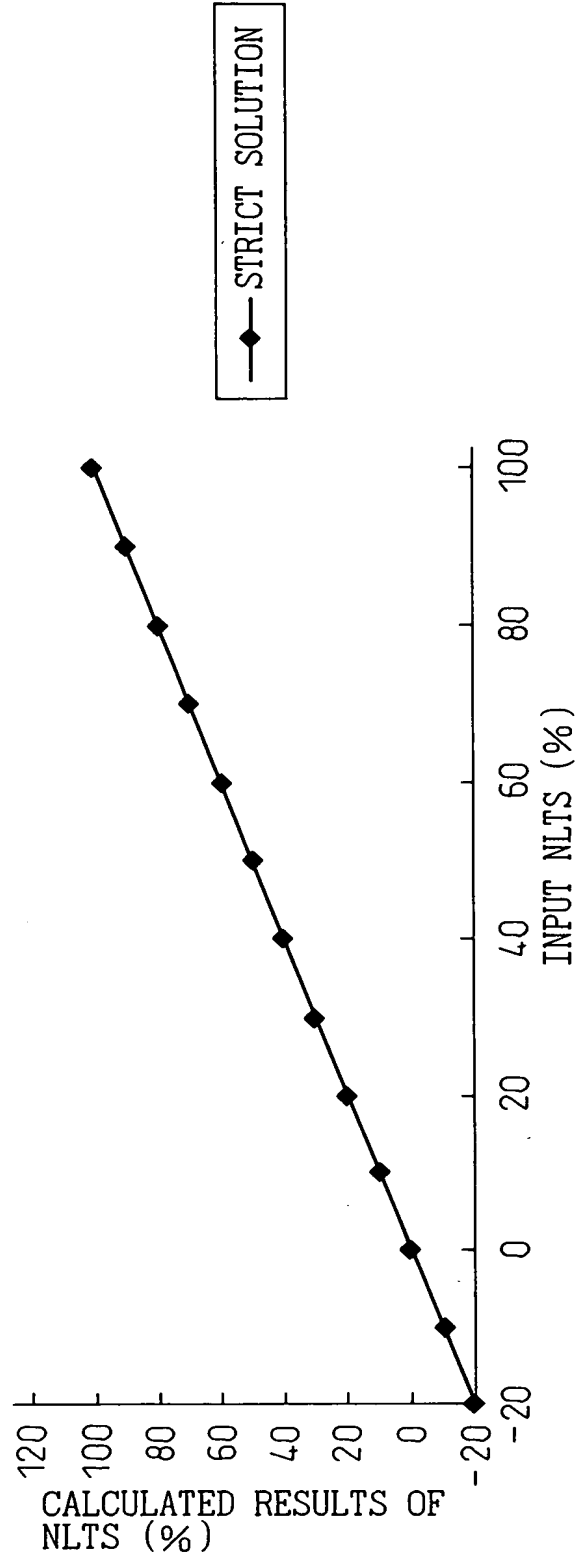
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Fig.9



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Fig.10

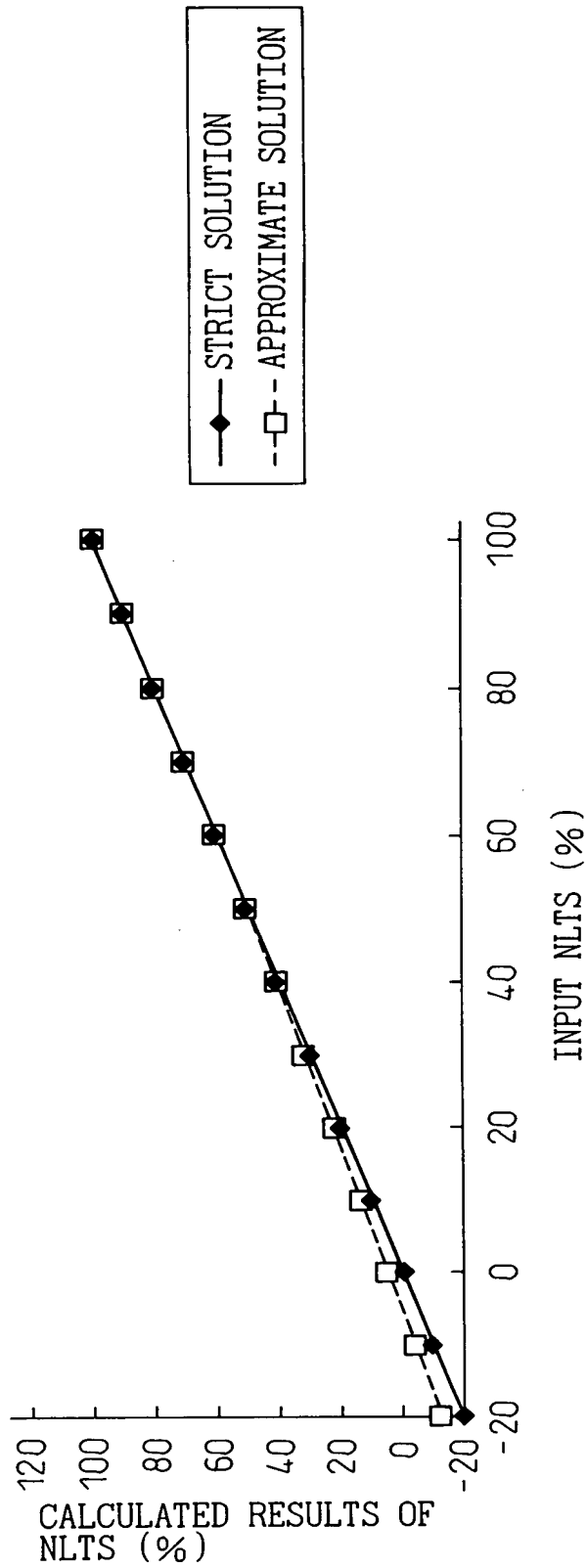


FOOT "EE646660

T00ETT" EE626660

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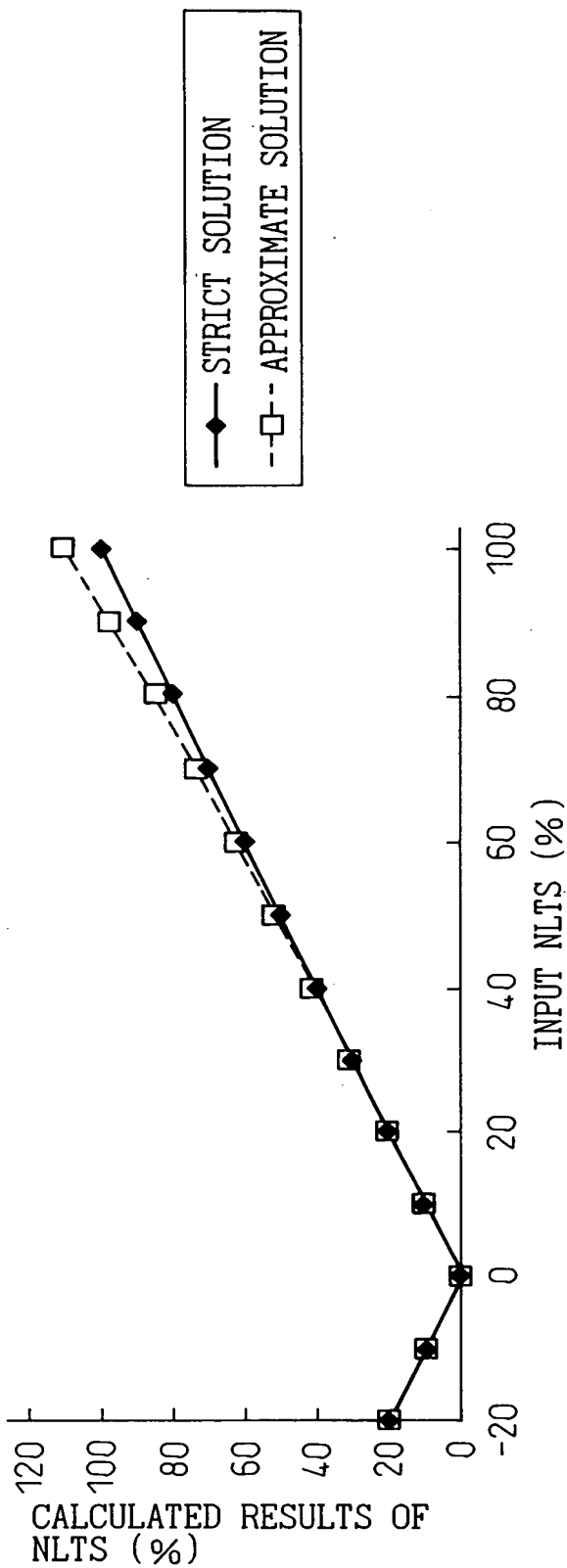
Fig.11



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Fig.12



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Fig.13A

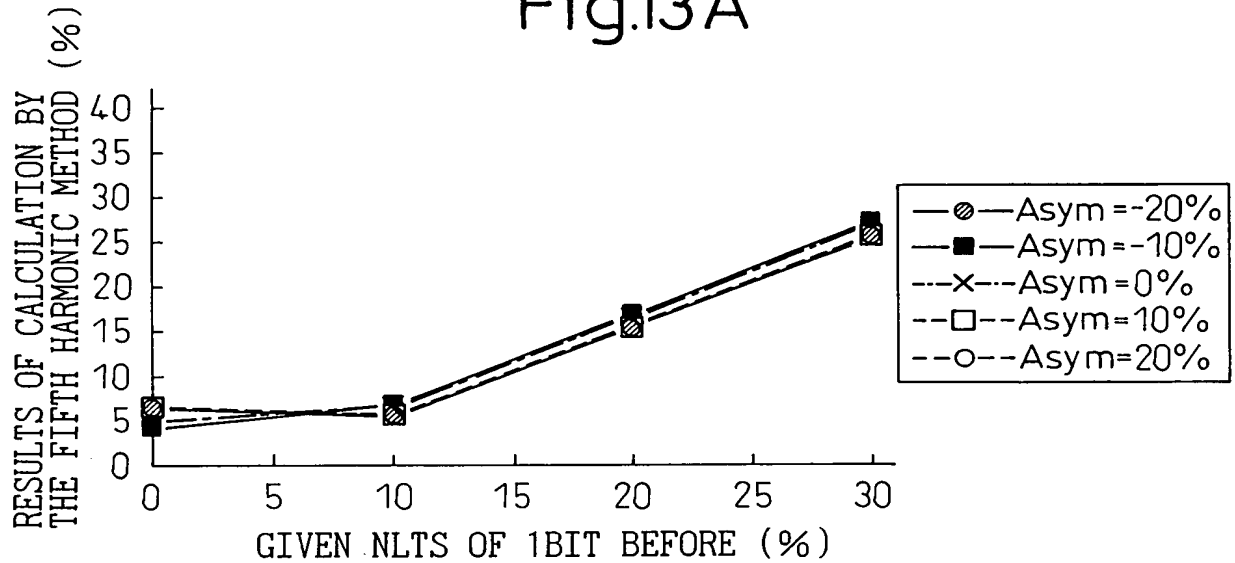
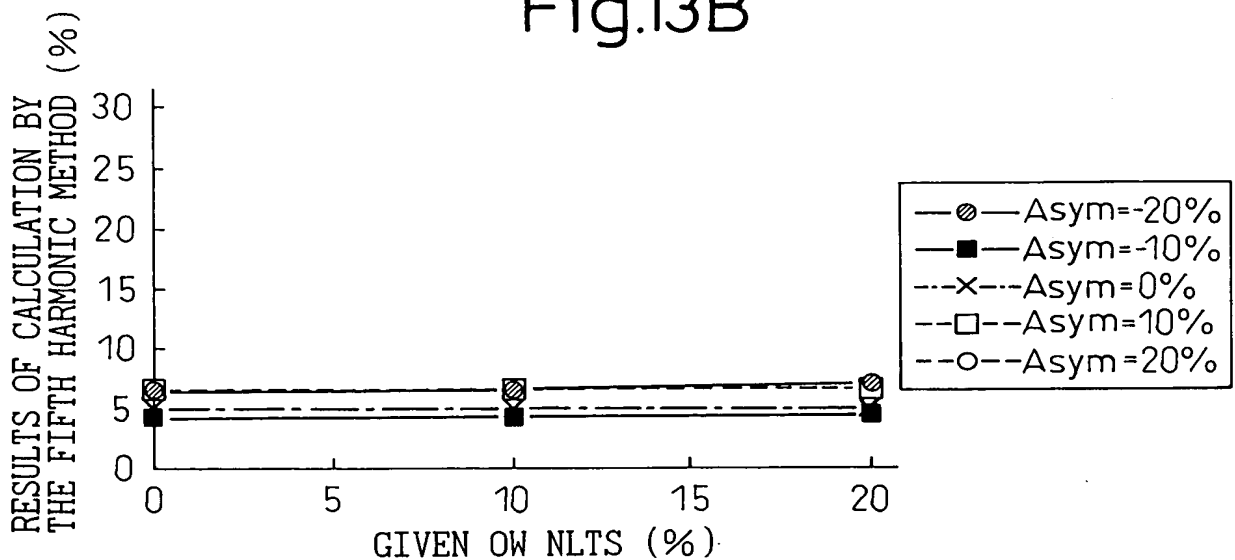


Fig.13B



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Fig.14A

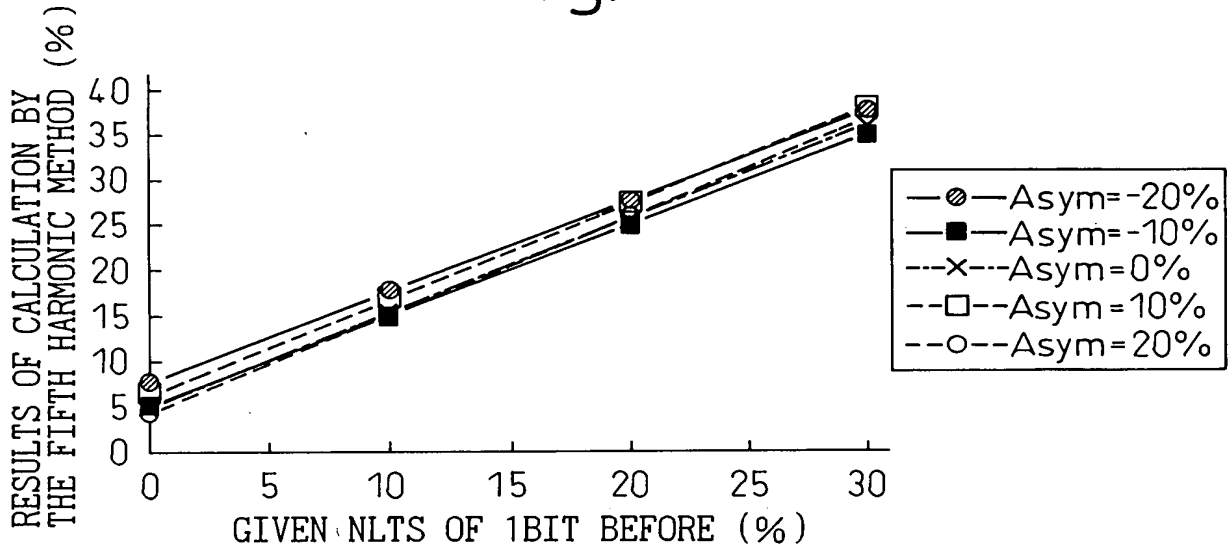
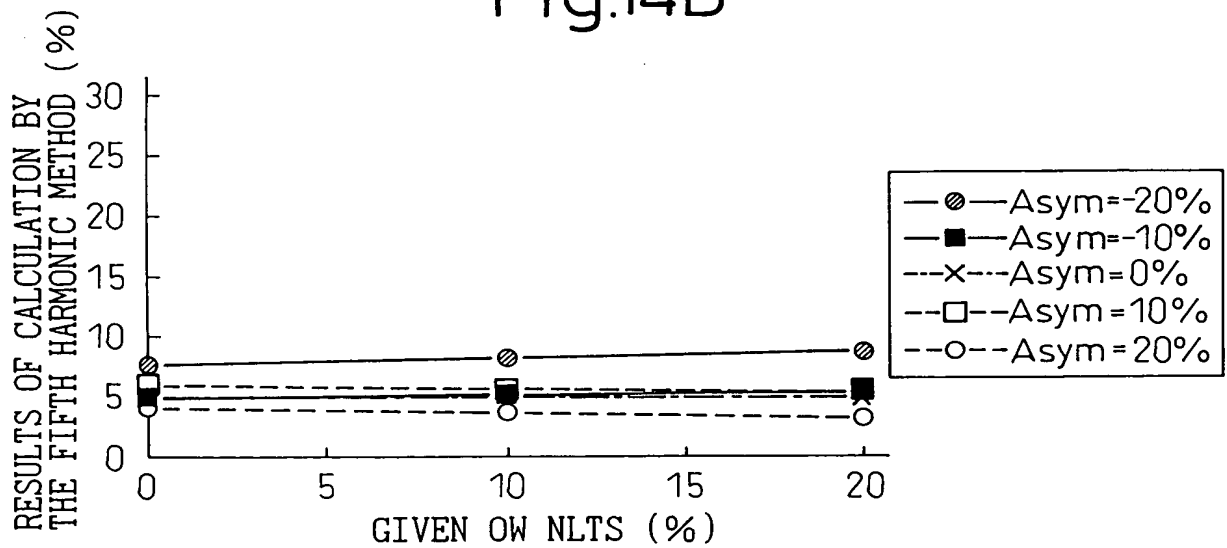


Fig.14B



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Fig.15A

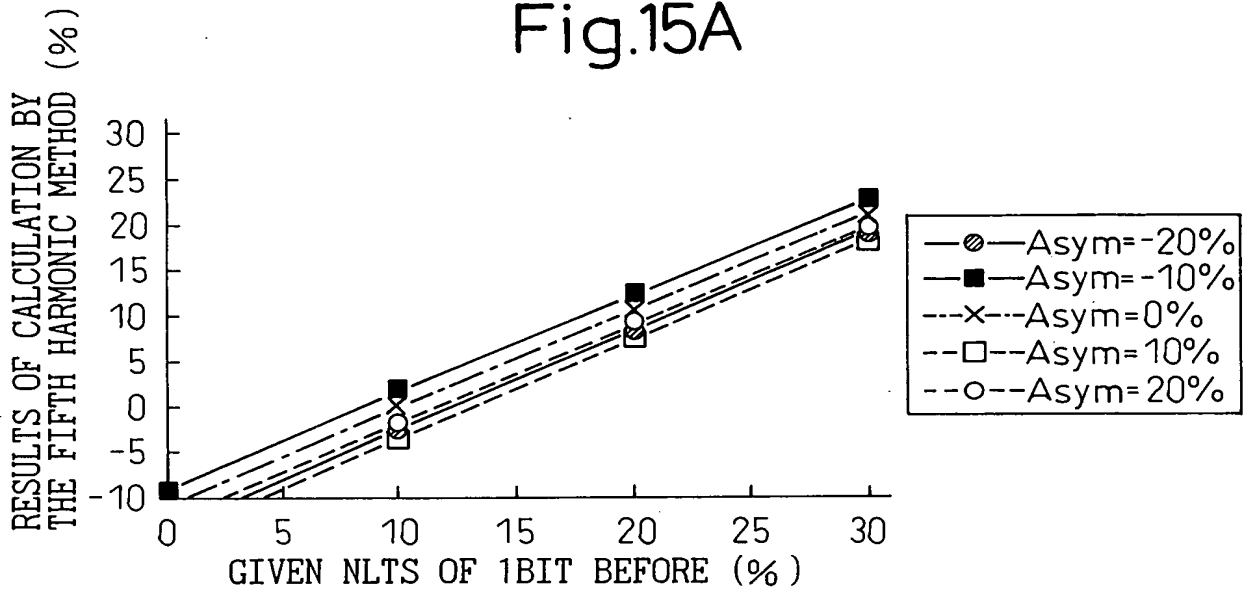
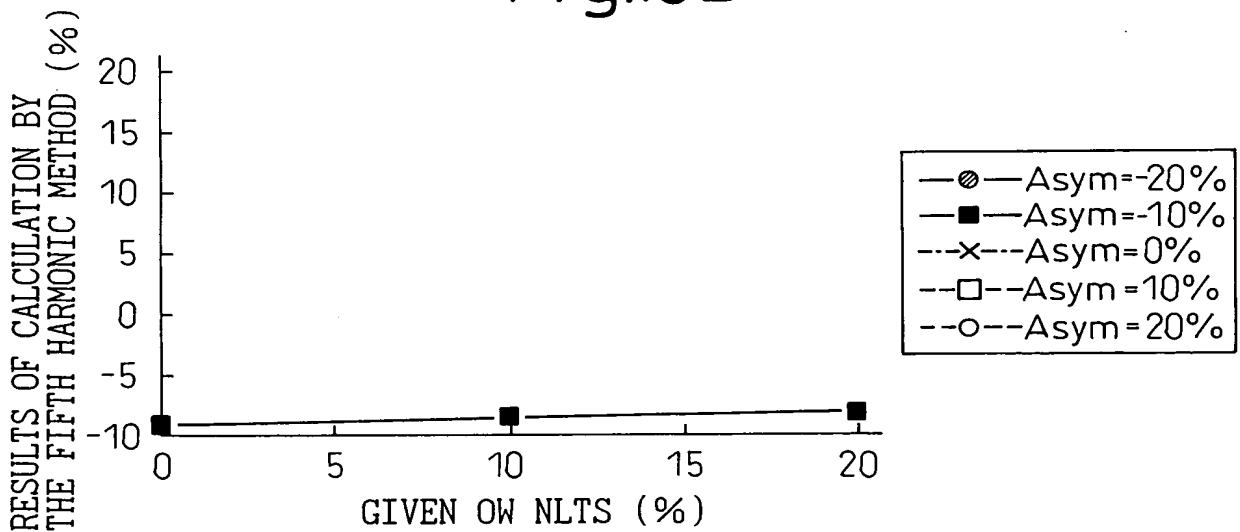


Fig.15B



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Fig.16A

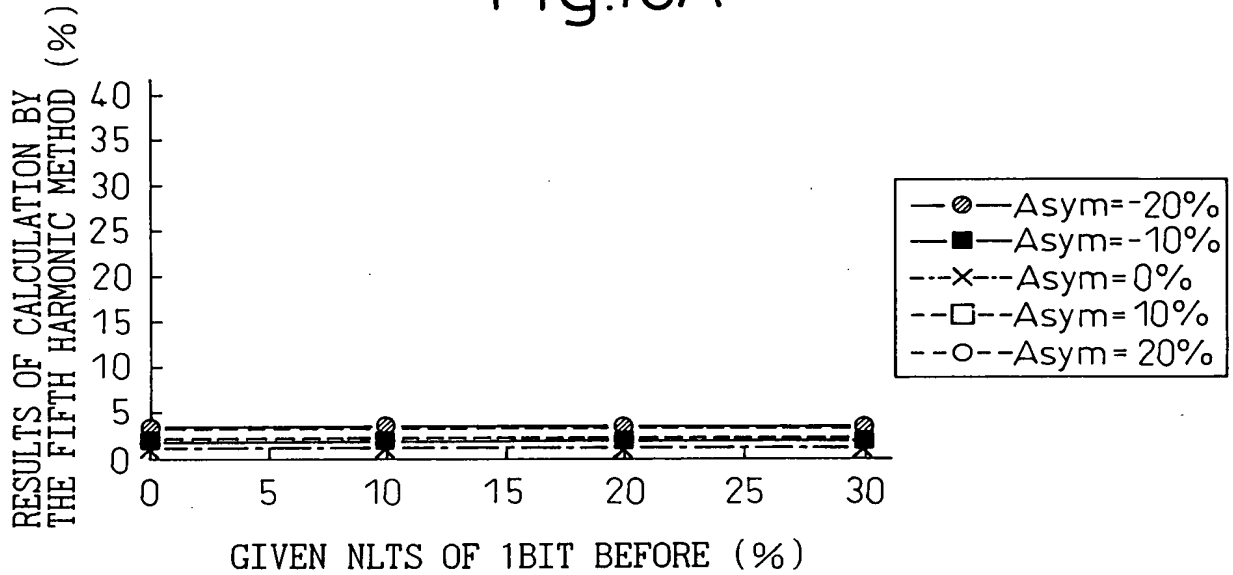
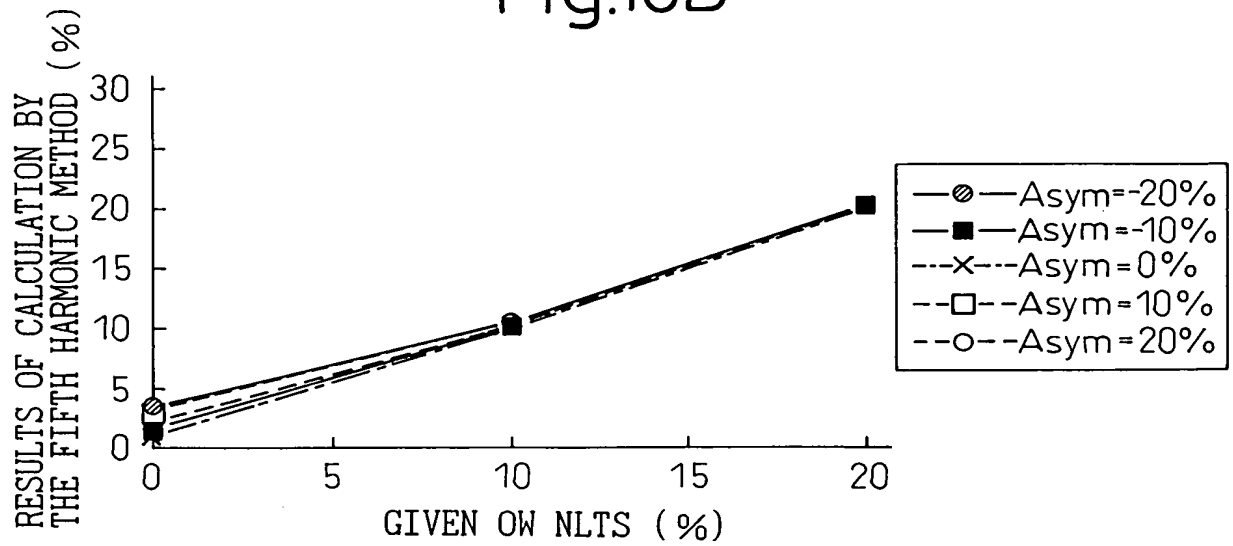


Fig.16B



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